



AT-MC601/2

Extended Ethernet™ over VDSL

AT-MC601

Subscriber Unit

AT-MC602

Provider Unit

Extended Ethernet™ Operation

Used as a pair, the AT-MC601 and AT-MC602 provide over 10Mbps of symmetric data transfer, while supporting POTS service over phone-grade, twisted-pair, wiring (CAT1, 2, 3) at distances up to 1.2Km or 4,000 feet.

They are the ideal solution for providing over 10Mbps operation on 'last-mile' twisted-pair circuits or existing in-building wiring. Standard Ethernet operation is preserved end-to-end, retaining VLAN tags, and Ethernet MAC information across the link, while higher layer protocols are passed transparently. 10Mbps Ethernet operation is supported simultaneously with POTS, ISDN or PBX signalling, without disruption.

MTU and MDU Applications

Multi-Tenant Units (MTU) such as offices and campuses, and Multiple Dwelling Units (MDU) such as hotels and apartments are an ideal environment for the AT-MC601/2 network extenders, where phone-grade wiring can be used to provide broadband access to Internet services including video streaming, WWW, gaming and e-mail. There is no need to re-wire premises with expensive CAT5 or fiber to provide broadband Ethernet services.

Standalone and Rack-mount

The AT-MC602 provider unit is available as a compact standalone unit for installation at the central office, or alternatively, it can be rack-mounted in the standard AT-MCR12 chassis from Allied Telesis, capable of housing up to twelve units in one compact chassis with a redundant power supply, simplifying wiring and minimizing space requirements.

Plug and Play Operation

Simply connect to the RJ-45 Ethernet port and the unit will automatically auto-sense and configure for 10T or 10/100TX, as well as full or half-duplex Ethernet operation. An integral POTS splitter means that existing phone services are not affected - no reconfiguration is required.

Key Features

- 11Mbps full-duplex Ethernet operation up to 1.2Km or 4,000ft - symmetrical operation
- Up to 25Mbps downstream asymmetrical operation
- Traffic shaping upstream and downstream
- Both symmetrical and asymmetrical operation
- Operates over category 1, 2, 3 or 5 telephone quality cabling
- 10/100 Ethernet port
- POTS port
- Integral POTS splitter
- Auto MDI/MDI-X
- Power, Ethernet activity and link LEDs
- VDSL error and link LEDs
- GUI configuration tool
- Standalone, rack-mountable and wall-mountable
- Software upgradable
- Compact form factor

Technical Specifications

Product Specifications

Supports proposed IOS specification
QAM modulation
Spectrally compatible with ISDN and POTS services
FDD duplexing
Data rate 11Mbps full-duplex
64K EEPROM
Half/full-duplex
Auto-negotiation
Auto MDI/MDI-X

Speed/Distance

11Mbps at 1.2km, 4000ft symmetric
(Subject to cable type)

Front Panel Indicators

System Power
Ethernet Link
Ethernet Activity
VDSL Link
VDSL Error

Interface Connections

VDSL interface	RJ-11
Ethernet interface	RJ-45
POTS interface	RJ-11
Management	8-pin Din

Reliability

MTBF 700,000 hours

Physical Characteristics VDSL Interface

Dimensions 9.5cm x 10.9cm x 2.5cm
(W x D x H)
Weight 300g
Mounting Tabletop and rack-mountable*
* requires AT-MCR12 chassis

Environmental Specifications

Operating temp. 0°C – 40°C (32°F – 104°F)
Storage temp. -25°C to 70°C (-13°F to 158°F)

Relative humidity 5% to 95%, non-condensing

Operating altitude up to 10,000ft

Network management
GUI configuration tool
The subscriber unit can be remotely managed, down the link, from the provider unit

Power Characteristics

External power supply 120V AC, 60Hz (US model)
240V AC, 50Hz
(European models)
Input supply voltage 12vDC
Max current 500mA
Power consumption 6W

Country of Origin

Singapore

Approvals

UL 1950
FCC Class B
CSA
EN 55022 Class B
EN 60950 (TUV)
EN 50082-1

Ordering Information

AT-MC601-xx
(Subscriber Unit)

AT-MC602-xx
(Provider Unit)

VDSL Extended Ethernet

Where xx = 10 for US power supply
20 for European power supply
30 for UK power supply
40 for Australian power supply

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